

BIOMEDICAL ASSAY DEVICE**ABSTRACT**

5 The present invention provides an integrated structural unit that includes a diagnostic form that includes at least one active ingredient that is present in an amount that advantageously does not vary by more than about five percent from a predetermined target amount. In one embodiment, the unit 10 form comprises a substrate, a deposit that is disposed on the substrate, and a spreading layer that overlies the deposit and is used to retain and spread a sample of liquid which is to be assayed. The deposit comprises a powder, including the active ingredient(s). The diagnostic form is created via a dry powder deposition apparatus that electrostatically deposits the powder on the substrate utilizing an electrostatic chuck and charged powder delivery 15 apparatus.

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